

# SDA1 - 10, - 15

## DIN rail 10A & 15A solid-state relays

# DURAKOOL



- High load voltage - up to 480VAC
- 4 ~ 32VDC control input voltage
- Single Phase, Zero cross-over switching
- LED control input indicator
- Integrated heatsink
- RoHS Compliant



### Output (load)

Load type	SPST-NO (1 N/O) Resistive	
Load current	10A, 15A	
Load switching voltage	AC V <sub>rms</sub>	40 - 480V
Maximum peak voltage	AC V <sub>pk</sub>	900V
Minimum load current	0.1A	
Inrush Current (max.)	10ms	10A: 120A / 15A: 160A
I <sup>2</sup> t	10A: 72A <sup>2</sup> s / 15A: 128A <sup>2</sup> s	
Switch type	Zero Cross (Consult factory for Random)	
On voltage drop	V AC	1.6V
Leakage current off	mA	≤ 10mA

### Input (control)

Control voltage (rated)	V	DC Control: 4 - 32VDC
Control current	mA	< 20mA (voltage dependent - see Fig. 2)
Turn-on voltage (min)	V <sub>min</sub>	DC Control: 3.5VDC
Turn-on voltage (max)	V <sub>max</sub>	DC Control: 35VDC
Turn-off voltage	V	DC Control: 2VDC

### Insulation

Insulation resistance	≤ 500MΩ at 500VDC, 50%RH	
Dielectric strength	V AC	≥ 2500V

### General Data

Operating time (typical)	mS	Approximately 1/2 cycle of load frequency + ≤1ms
Release time (typical)	mS	Approximately 1/2 cycle of load frequency + ≤1ms
Dimensions	L x W x H	100 x 24 x 107mm
Weight	approx. 228g	
Ambient temperature	storage	-30 to 100°C (No icing or condensation)
	operating	-30 to 80°C (with derating). (No icing or condensation)
Relative Humidity	45 - 85% RH	

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### Ordering Code

S D A 1 Z - 10 K - D

#### Switch Function

- Z - Zero Crossover
- R - Random

#### Load Current Rating

- 10 - 10A
- 15 - 15A

#### Load Voltage

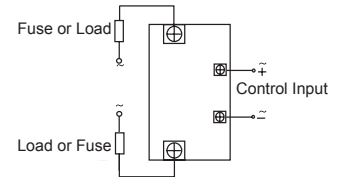
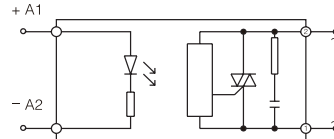
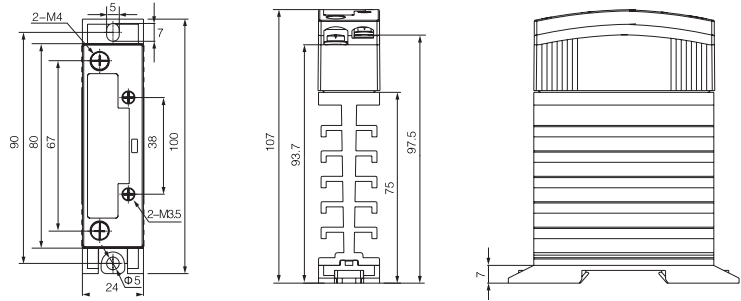
- K - 40 to 480VAC

#### Control Voltage Input

- D - 4 to 32VDC

### Dimensions

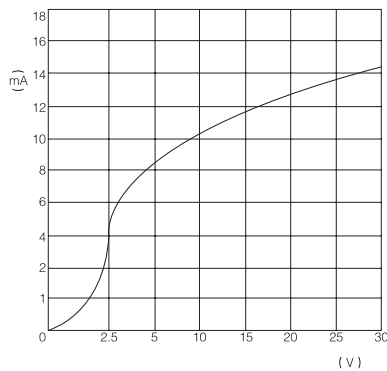
Fig. 1



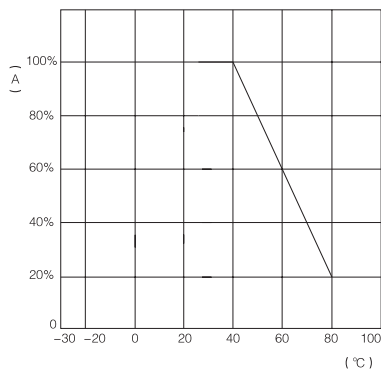
Dimensions in mm

Fig. 2

Input Current v. Control Voltage: 4 ~ 32VDC



Load Current Derating v. Ambient Temperature



Load Output v. Input Control Action (Zero X-over)

